

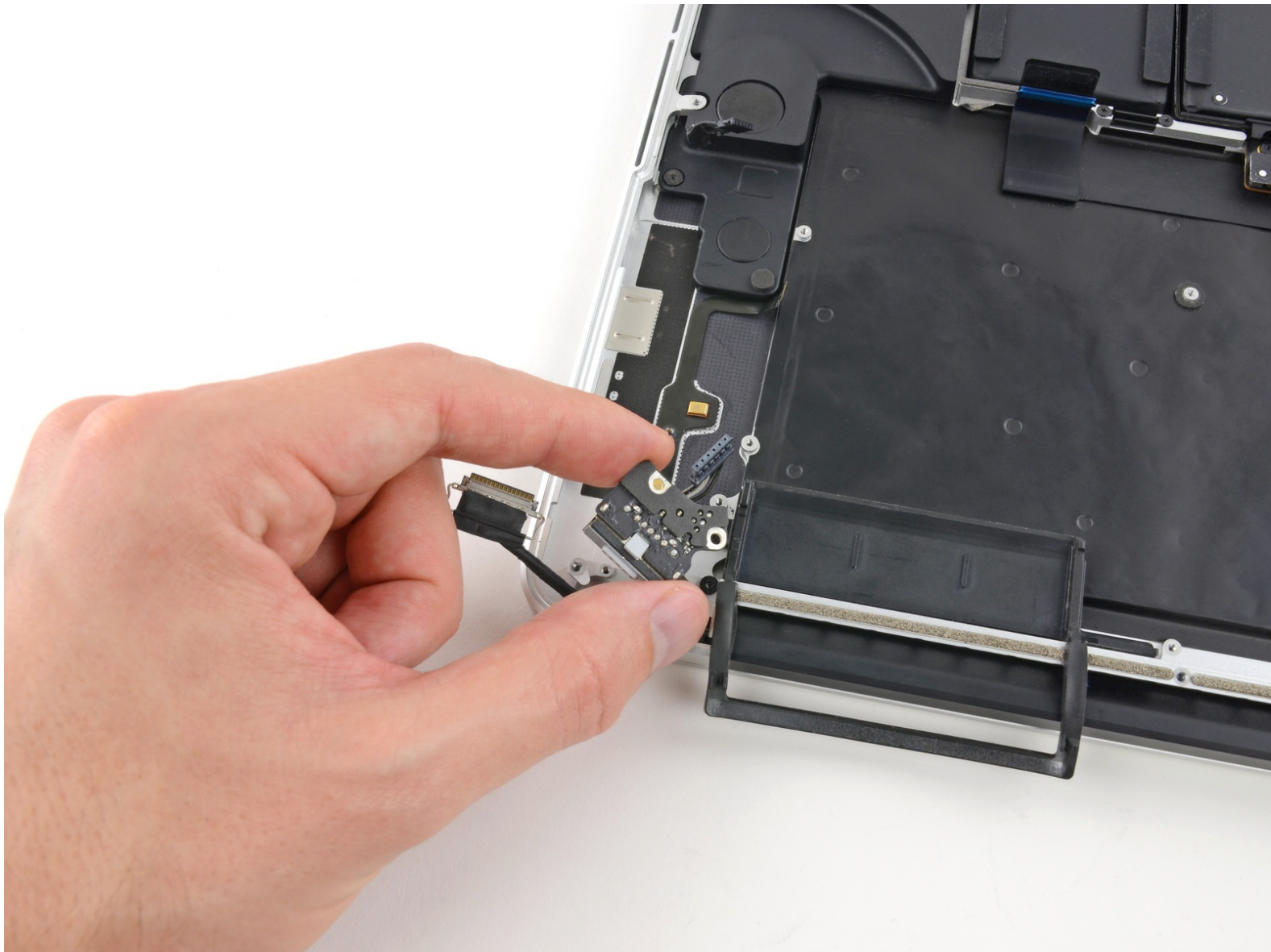


MacBook Pro 15" Retina Display Late 2013

MagSafe DC-In Board Replacement

Replace the MagSafe DC-In Board in your MacBook Pro 15" Retina Display Late 2013.

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INTRODUCTION

If your MagSafe 2 power adapter has been damaged, you can replace it. Use this guide to install a replacement MagSafe DC-In Board.



TOOLS:

- [MacBook Pro and Air 5-Point Pentalobe Screwdriver](#) (1)
- [Spudger](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)



PARTS:

- [MacBook Pro 15" Retina \(Late 2013\) MagSafe 2 DC-In Board](#) (1)

Step 1 — Lower Case



- Remove the following P5 pentalobe screws securing the lower case to the MacBook Pro:
 - Eight 3.0 mm
 - Two 2.3 mm

Step 2



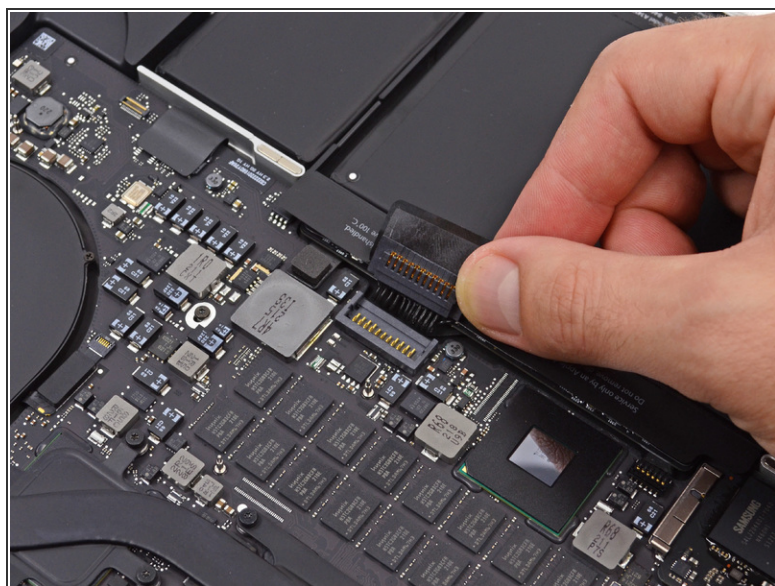
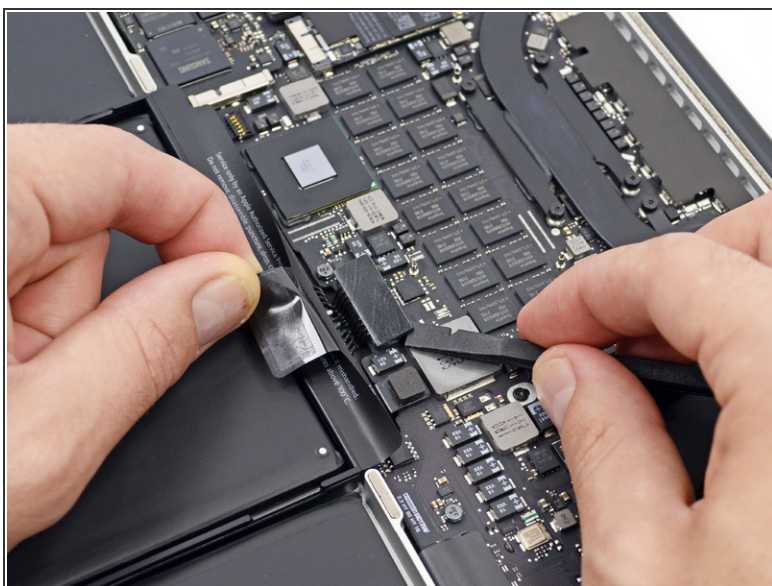
- Lifting from the edge nearest the clutch cover, lift the lower case off the MacBook Pro.
- Set the lower case aside.

Step 3 — Battery Connector



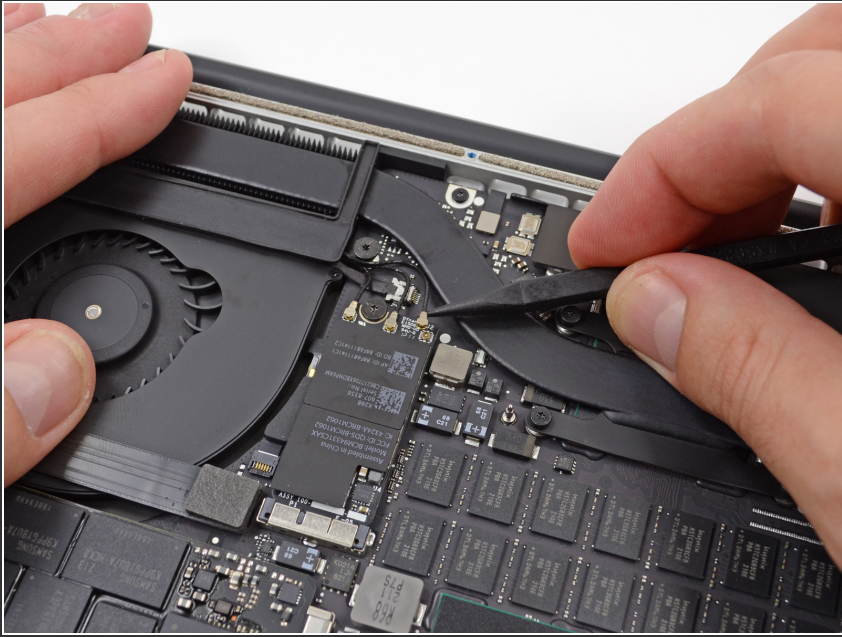
- Peel back the warning label covering the battery connector.

Step 4



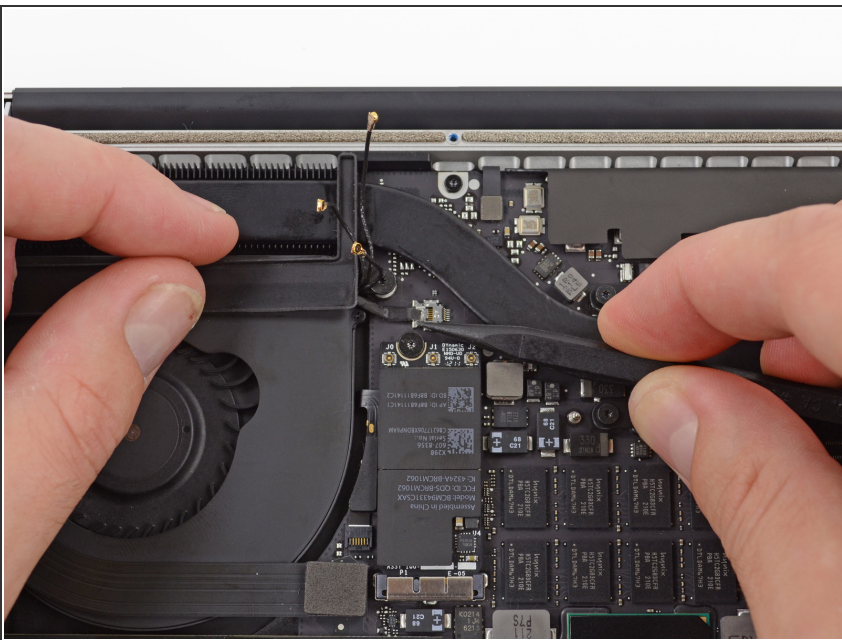
- Using the flat end of a spudger, gently pry the battery connector straight up out of its socket on the logic board.
- Bend the battery cables back and out of the way, ensuring that the battery connector doesn't accidentally make contact with the logic board.

Step 5 — AirPort/Camera Cable



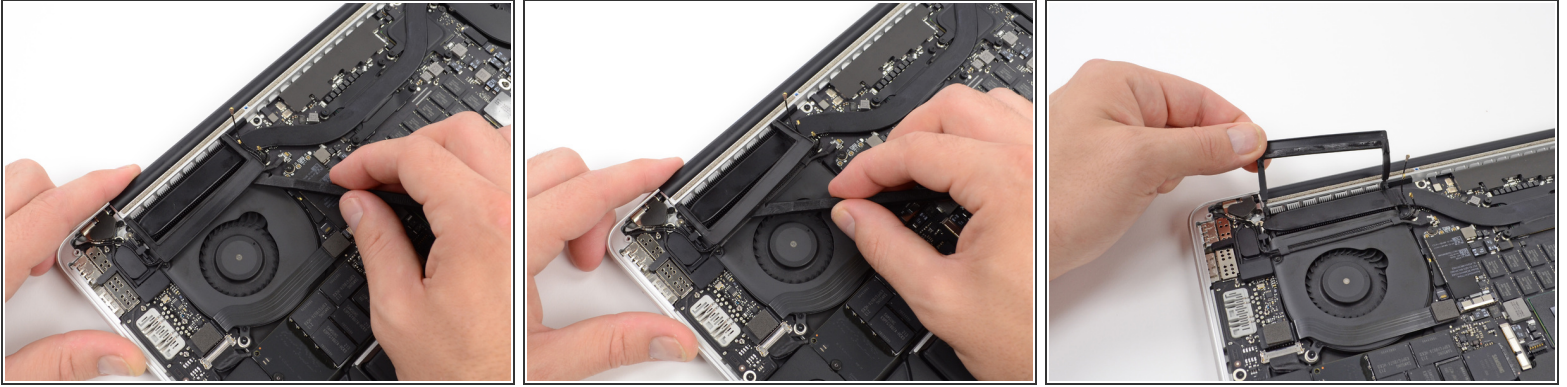
- Use the tip of a spudger to pry the three AirPort antenna cables straight up off of their sockets on the AirPort board.

Step 6



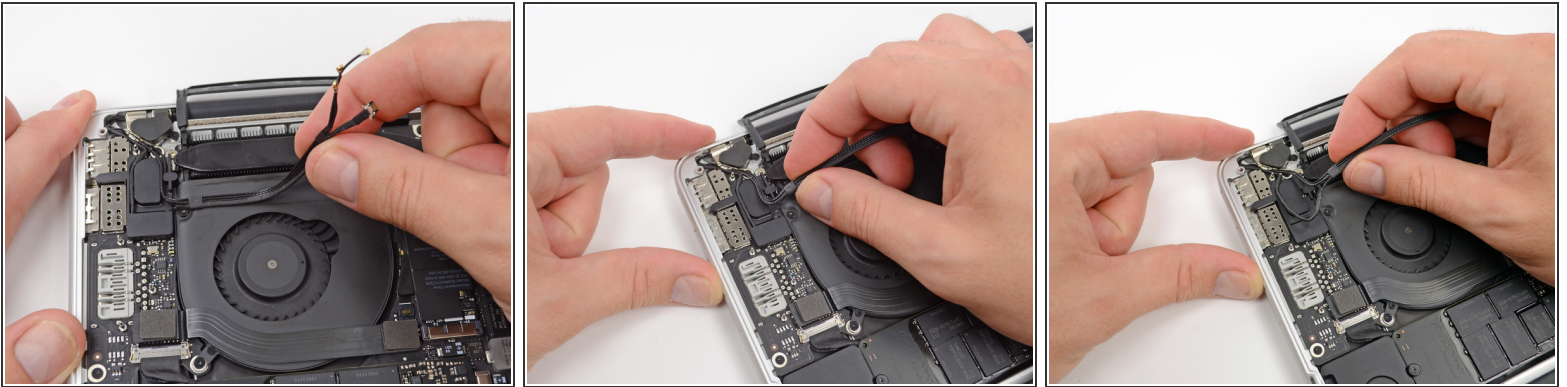
- Use the tip of a spudger to push the camera cable connector out of its socket on the logic board.
- ⓘ Be sure to push parallel to the board, pushing first on one side, then the other to "walk" the connector out of its socket.

Step 7



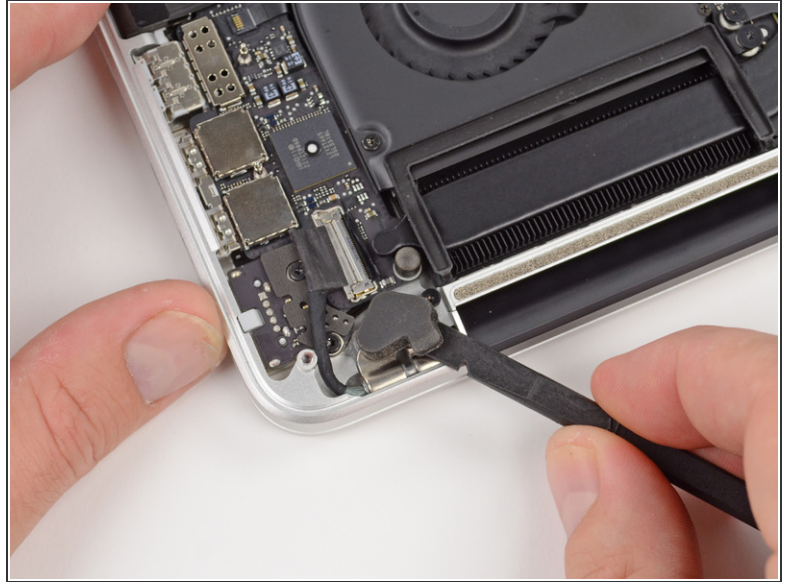
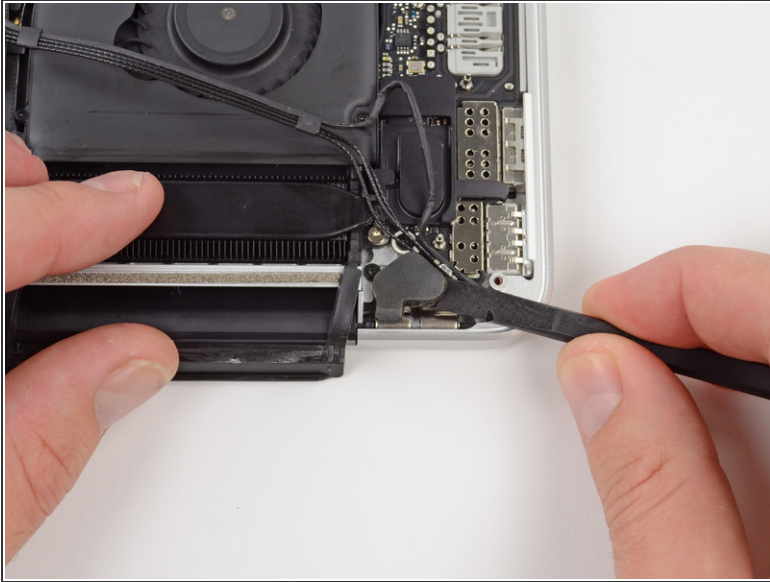
- Insert the flat end of a spudger underneath the rubber heat sink cover on the right fan.
- Slide the spudger underneath the length of the cover, releasing the adhesive.
- Lift the cover and flip it back so that you can access the cables underneath.

Step 8



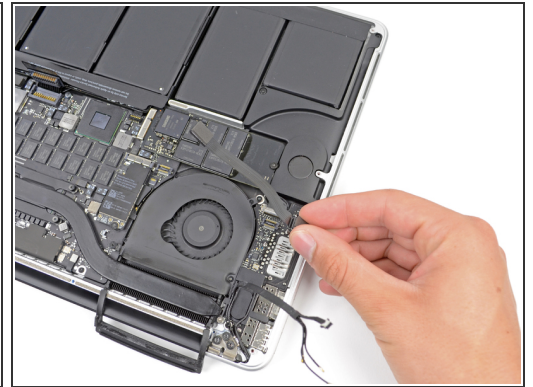
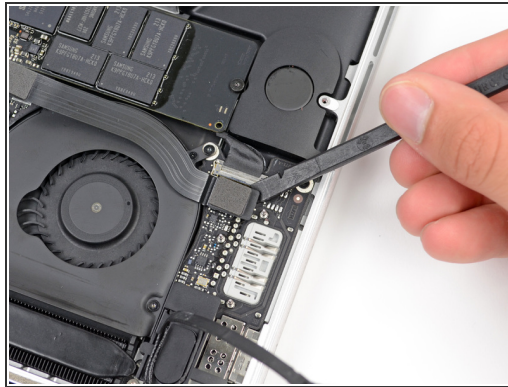
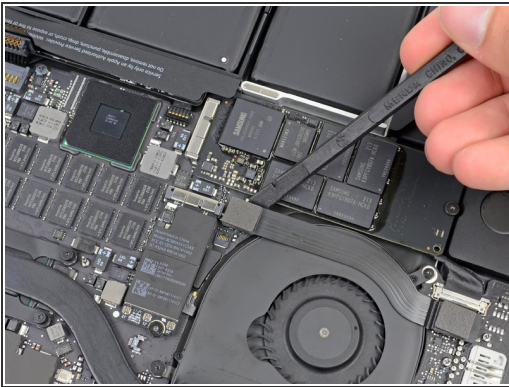
- Use your fingers to pull the AirPort/Camera cables up off the fan.
 - ⓘ The cables are adhered to the fan, so peel them up carefully to avoid damaging them.
- Carefully de-route the cables from the plastic cable guide.

Step 9 — Rubber Hinge Covers



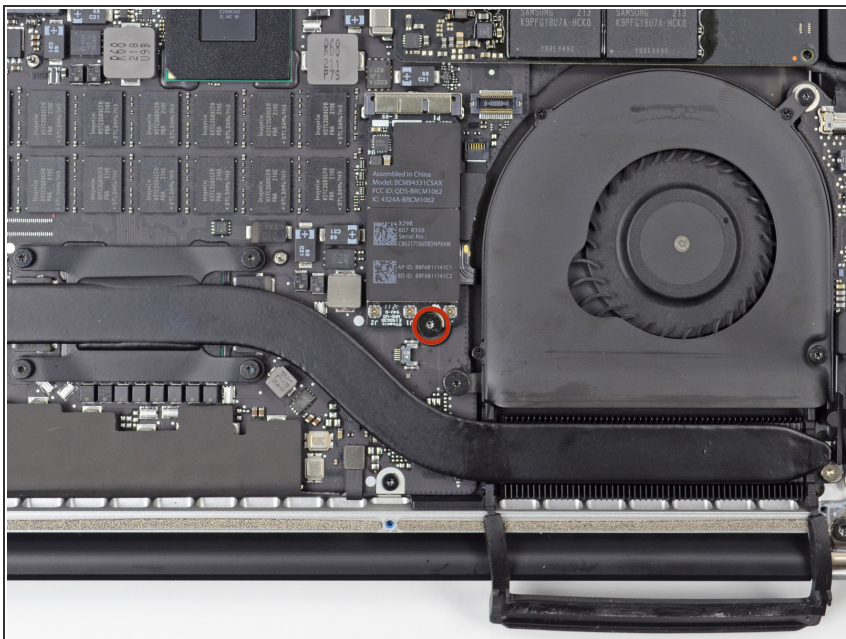
- Use the flat end of a spudger to pry the rubber hinge covers up off the left and right hinges.

Step 10 — I/O Board Cable



- Using the flat end of a spudger, pry the I/O Board connector straight up out of its socket on the logic board. On reassembly, connect this end first as it does not flex.
- In a similar fashion, remove the I/O Board connector from its socket on the I/O Board.
- Remove the I/O Board cable from the MacBook Pro.

Step 11 — Right Fan



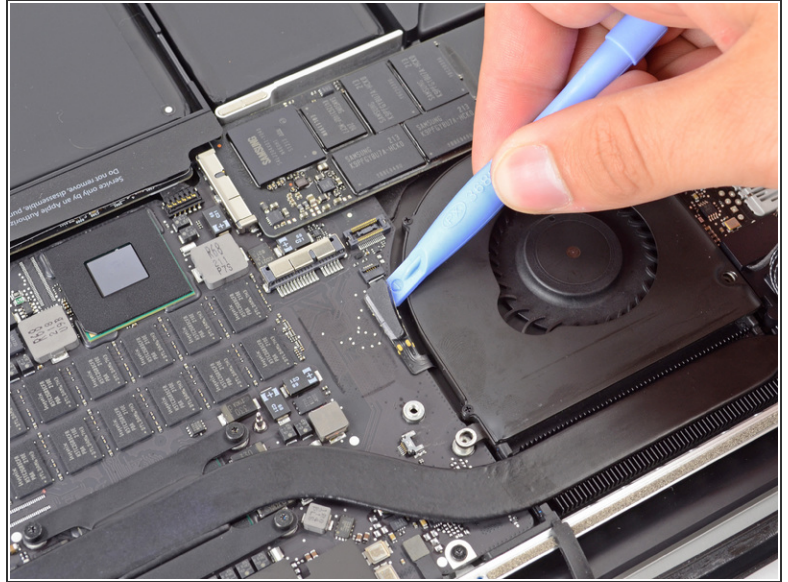
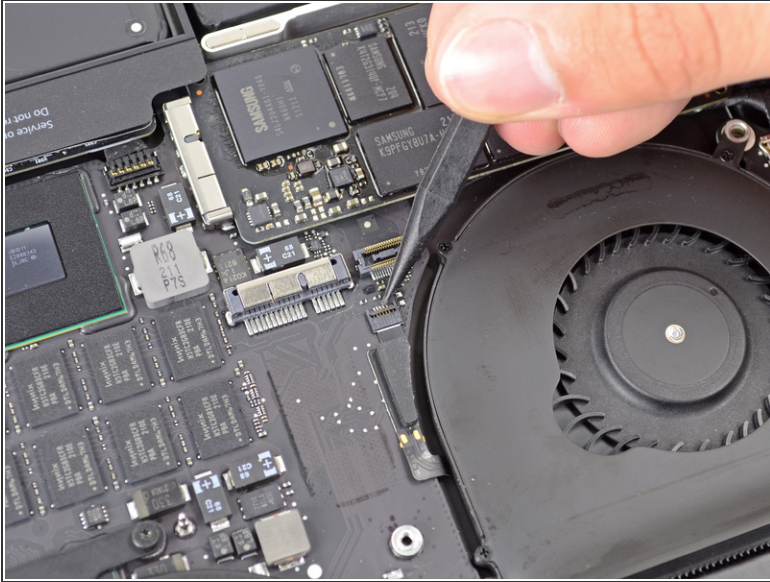
- Remove the single 2.9 mm T5 Torx screw securing the AirPort card to the logic board.

Step 12



- Grasp the thin sides of the AirPort card and pull parallel to the logic board, removing the AirPort card from the MacBook Pro.

Step 13



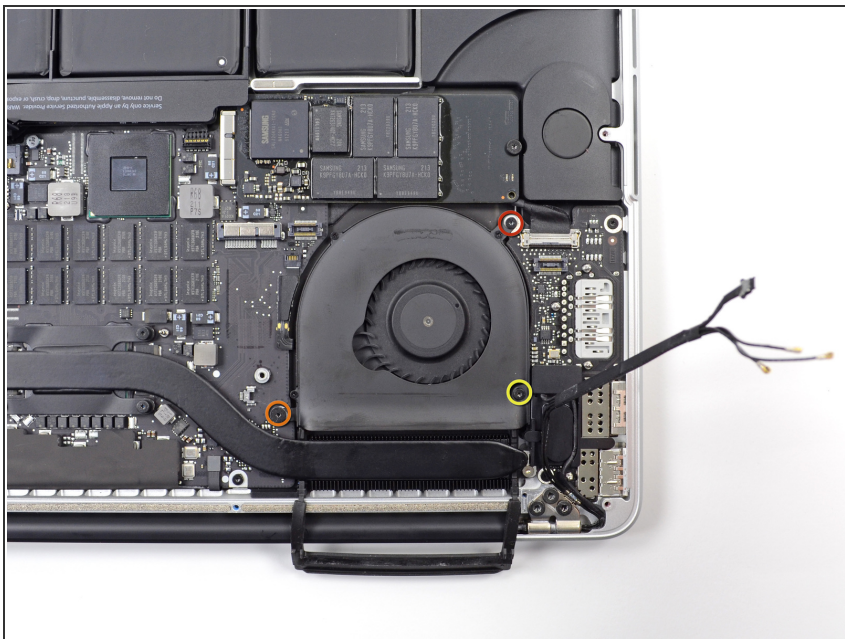
- Use the tip of a spudger to flip up the retaining flap on the right fan ribbon cable ZIF socket.

⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

- Starting at the top of the cable, slide a plastic opening tool under the right fan cable to free it from the logic board.

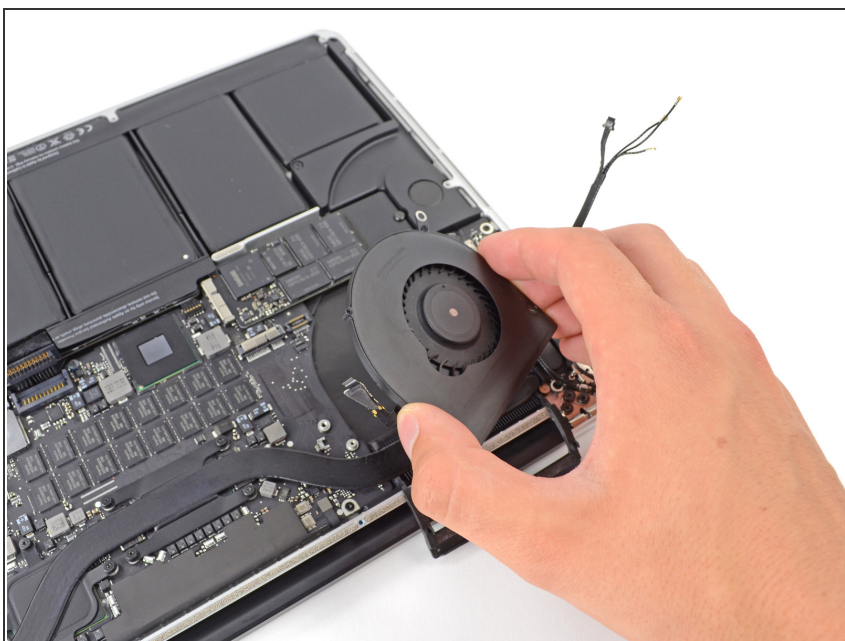
⚠ Use caution when freeing the cable, as it is strongly adhered to the logic board.

Step 14



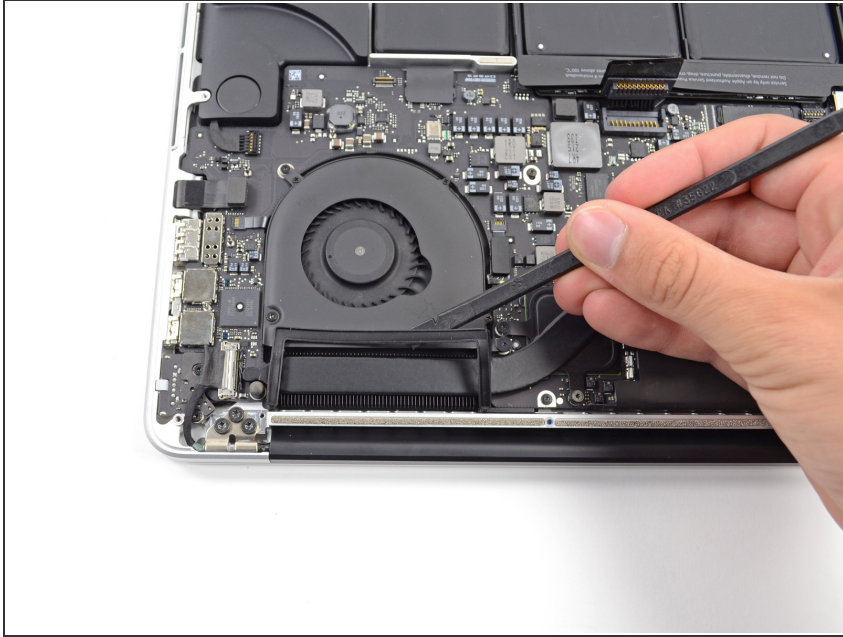
- Remove the following three screws securing the right fan to the logic board:
 - One 4.4 mm T5 Torx screw
 - One 3.9 mm T5 Wide Head Torx screw
 - One 5.0 mm T5 Torx screw with 2 mm collar

Step 15



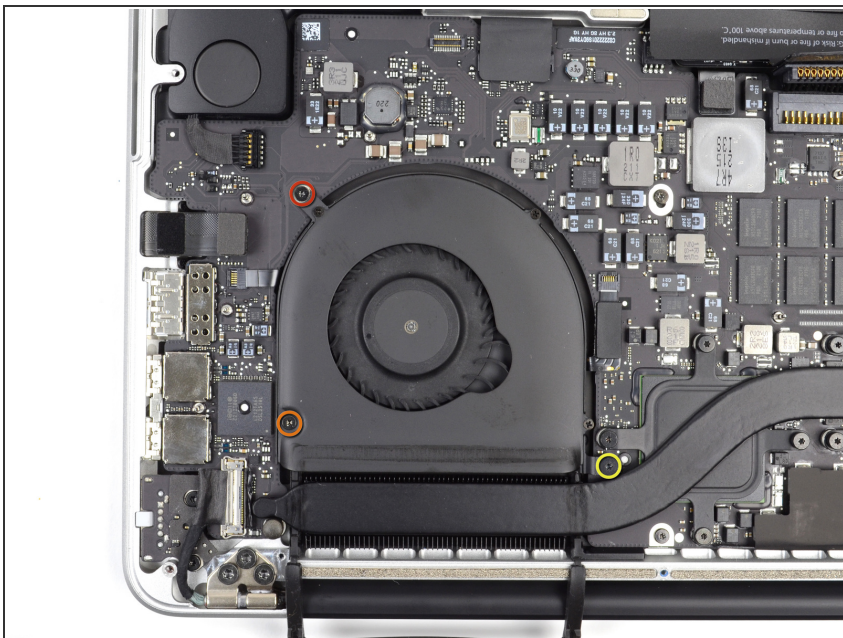
- Lift and remove the right fan out from the MacBook Pro.

Step 16 — Left Fan



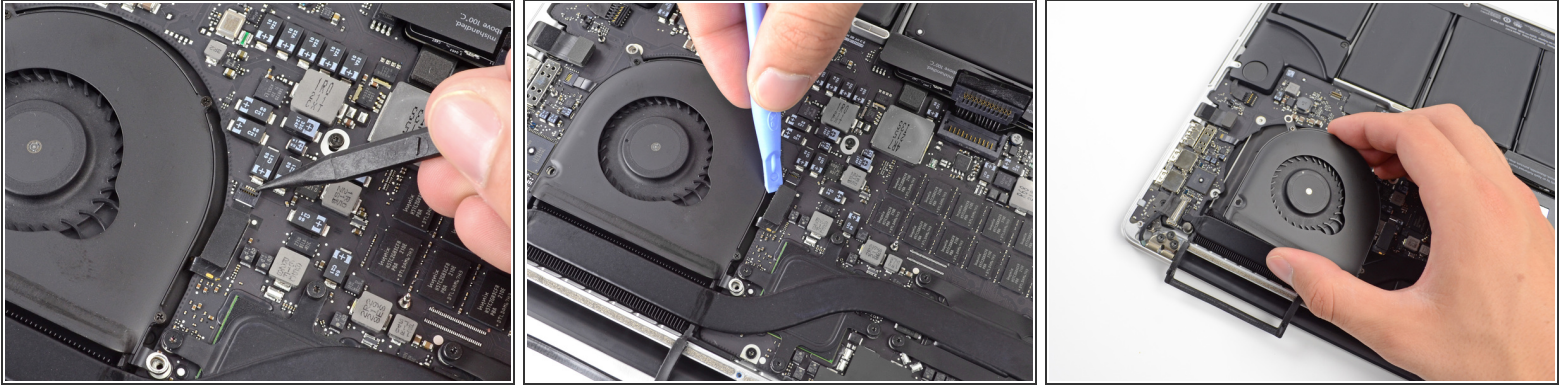
- Use the flat end of a spudger to lift the rubber heat sink cover up off the left fan.

Step 17



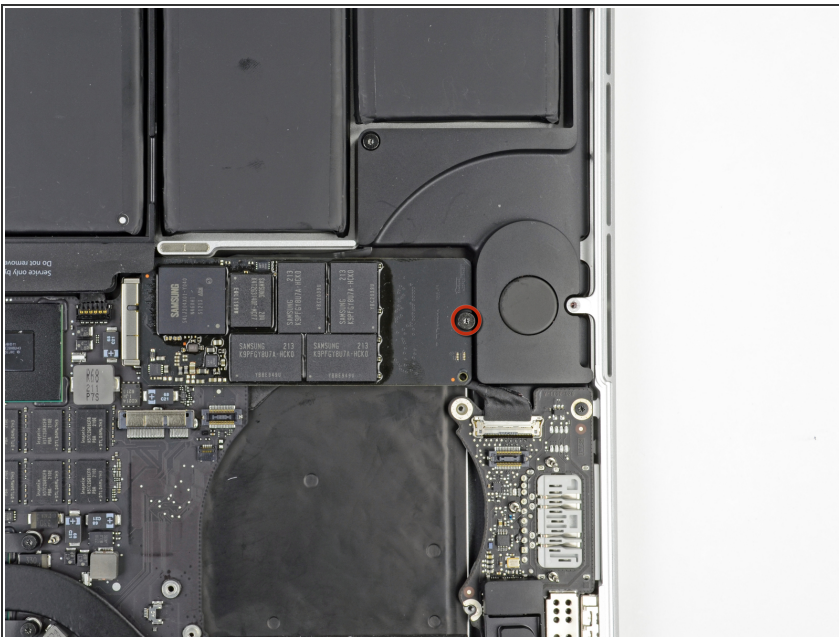
- Remove the following three screws securing the left fan to the logic board:
 - One 4.4 mm T5 Torx screw
 - One 5.0 mm T5 Torx screw with 2 mm collar.
 - One 3.9 mm T5 Wide Head Torx screw

Step 18



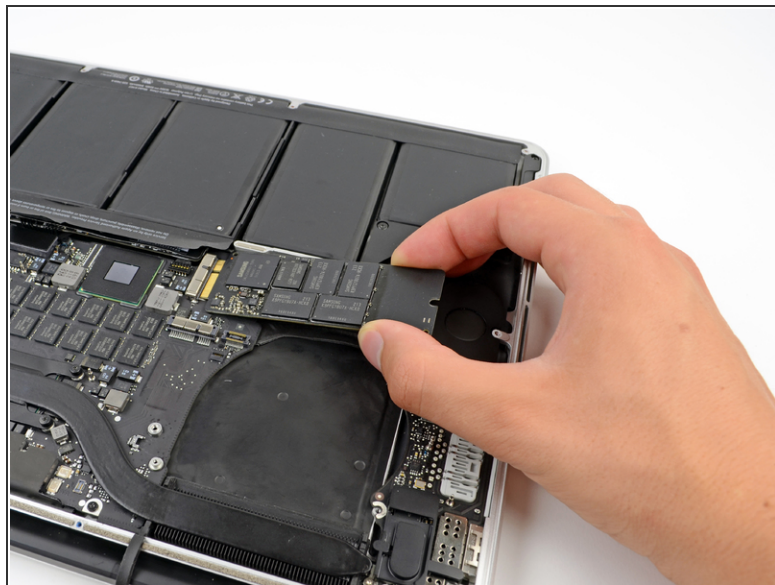
- Use the tip of a spudger to flip up the retaining flap on the left fan ribbon cable ZIF socket.
- ⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Starting at the top of the cable, slide a plastic opening tool under the left fan cable to free it from the logic board.
- ⚠ Use caution when freeing the cable, as it is strongly adhered to the logic board. If necessary, use an iOpener or hair dryer to heat the cable in order to soften the adhesive and make it easier to remove.
- Lift the left fan out of the device.

Step 19 — SSD



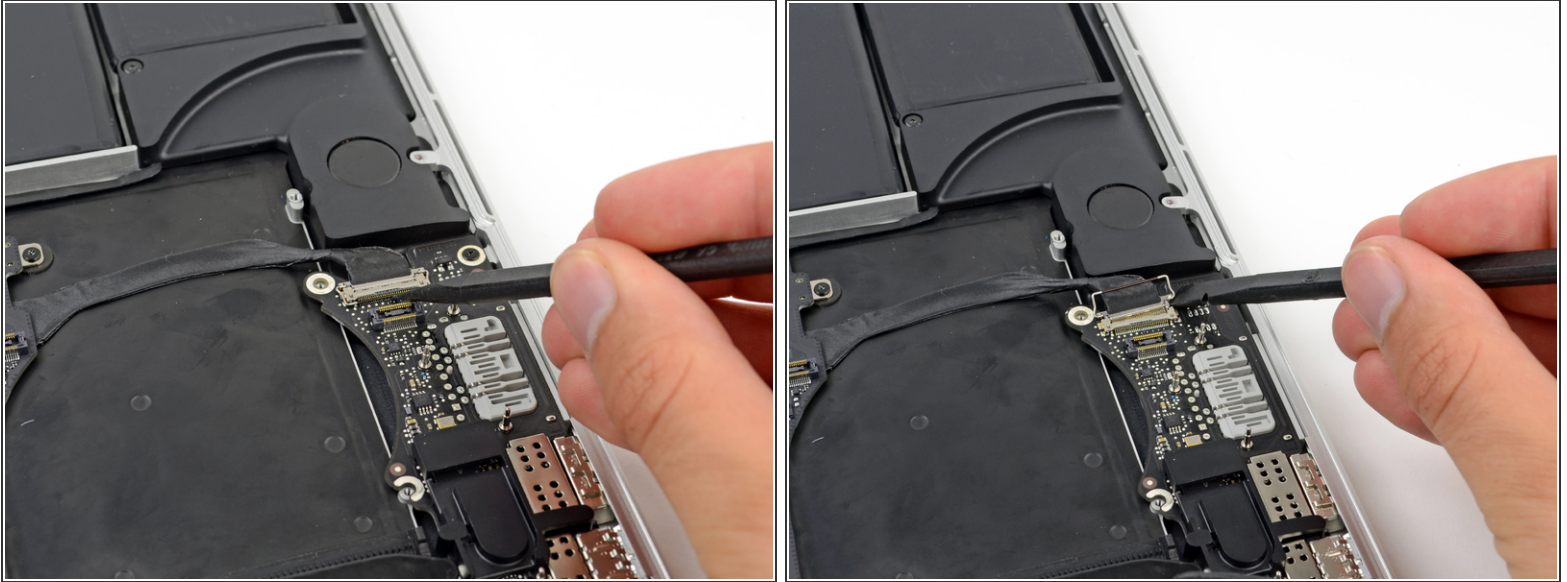
- Remove the single 3.1 mm T5 Torx screw securing the SSD to the logic board.


Step 20



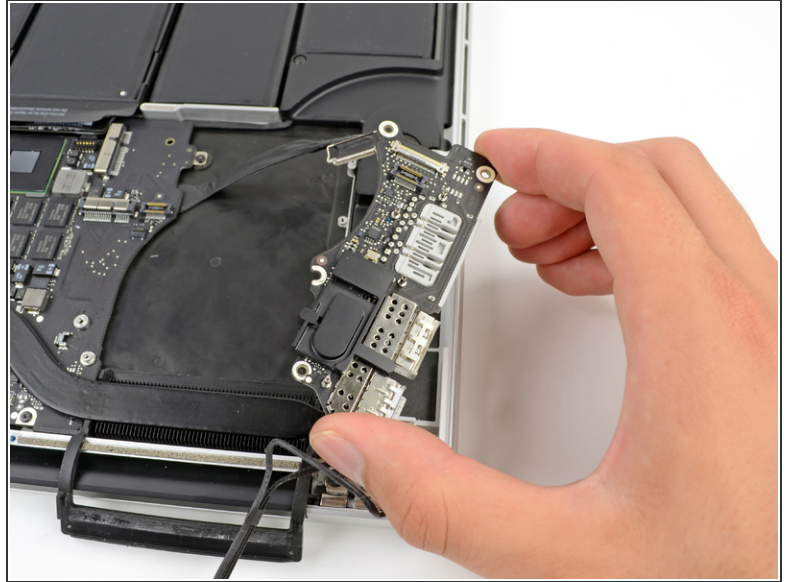
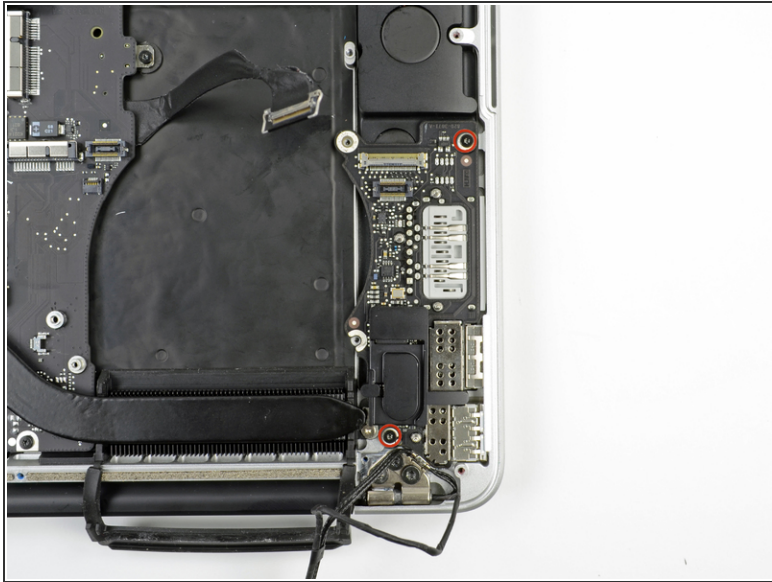
- Slightly lift the rightmost side of the SSD and firmly slide it straight away out of its socket on the logic board.

Step 21 — I/O Board



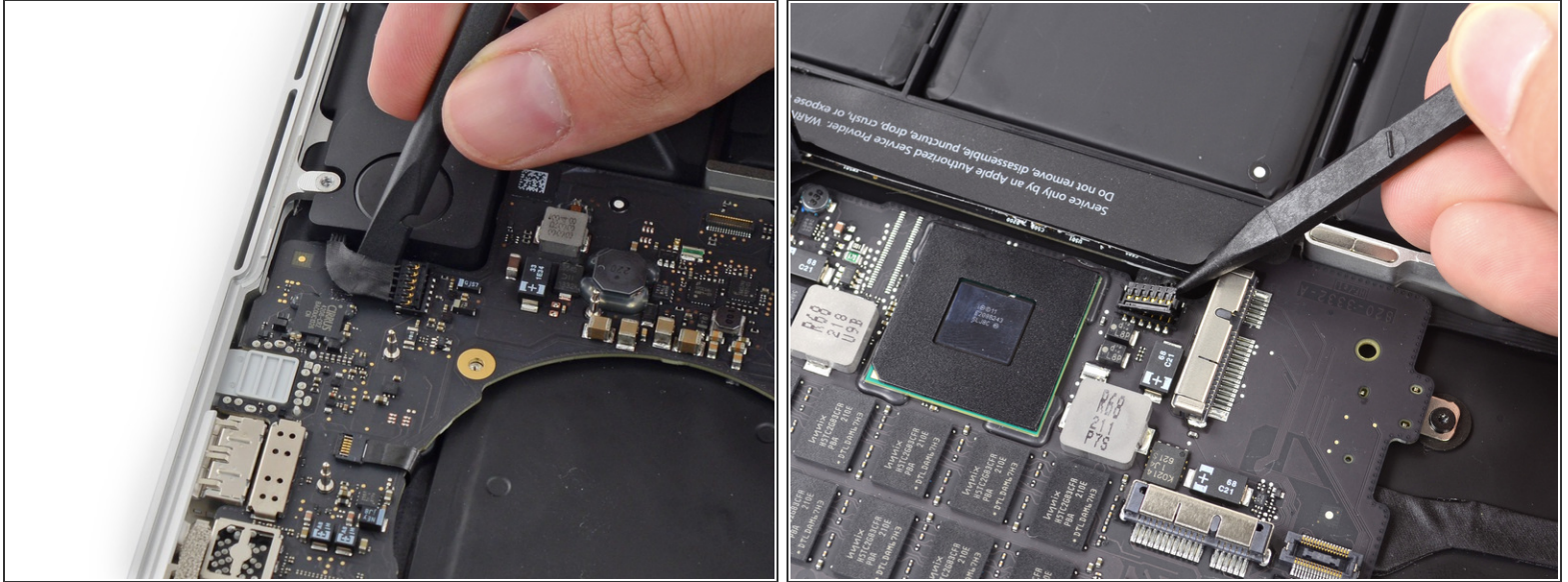
- Use the tip of a spudger to flip up the I/O board data cable lock and rotate it toward the battery side of the computer.
 - Use the flat end of a spudger to slide the I/O board data cable straight out of its socket on the logic board.
-  Do not lift up on the I/O board data cable, as its socket is very fragile. Pull the cable parallel to the face of the logic board.

Step 22



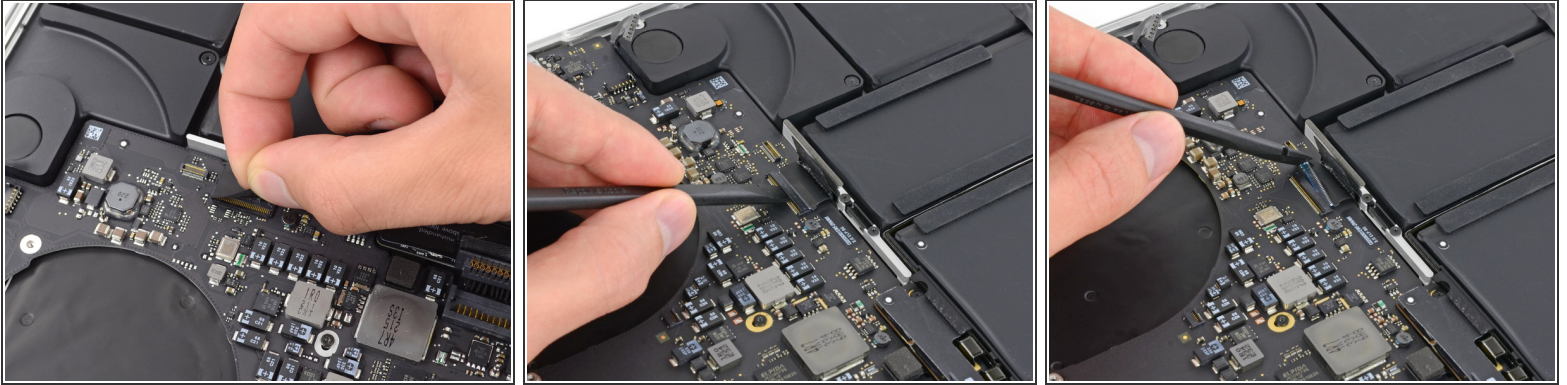
- Remove the two 3.1 mm T5 Torx screws securing the I/O board to the logic board.
- Carefully lift the I/O board and remove it from the lower case.


Step 23 — Logic Board Assembly



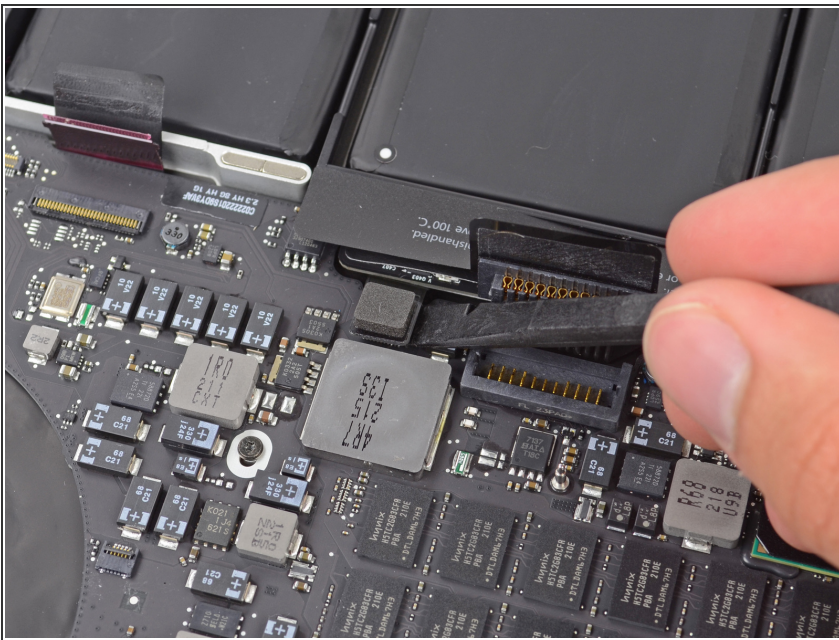
- Use the flat end of a spudger to pry the left speaker connector up and out of its socket on the logic board.
 - Use the tip of a spudger to pry the right speaker connector up and out of its socket on the logic board
- ⚠ Be sure to pry on the cable head, and not on the socket itself. Prying on the socket may cause it to separate from the logic board.

Step 24



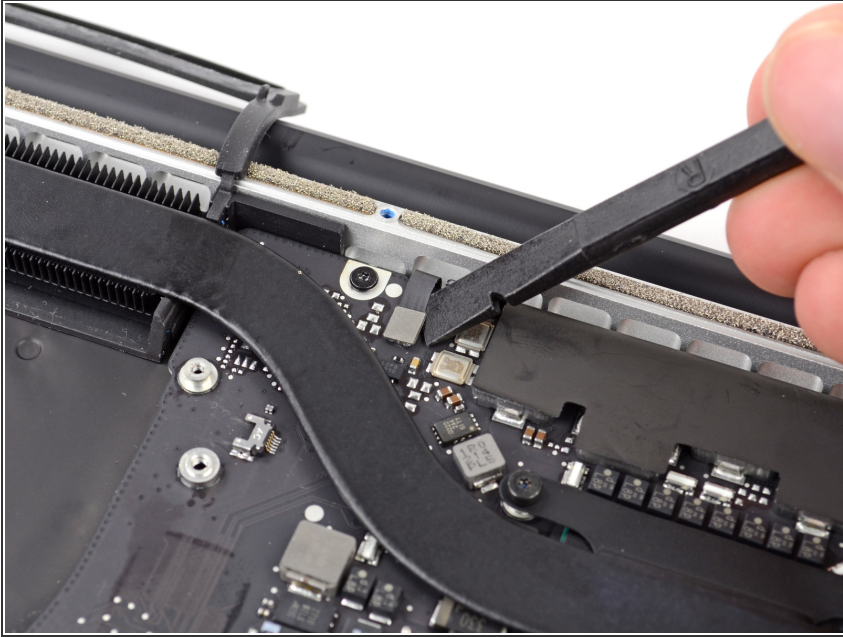
- Peel back the tape covering the top of the keyboard ribbon cable connector.
- Use the flat end of a spudger to flip up the retaining flap on the keyboard ribbon cable ZIF socket.
 Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Use the flat end of a spudger to push the keyboard ribbon cable out of its socket.

Step 25



- Use the flat end of a spudger to pry the trackpad ribbon cable connector up out of its socket.

Step 26



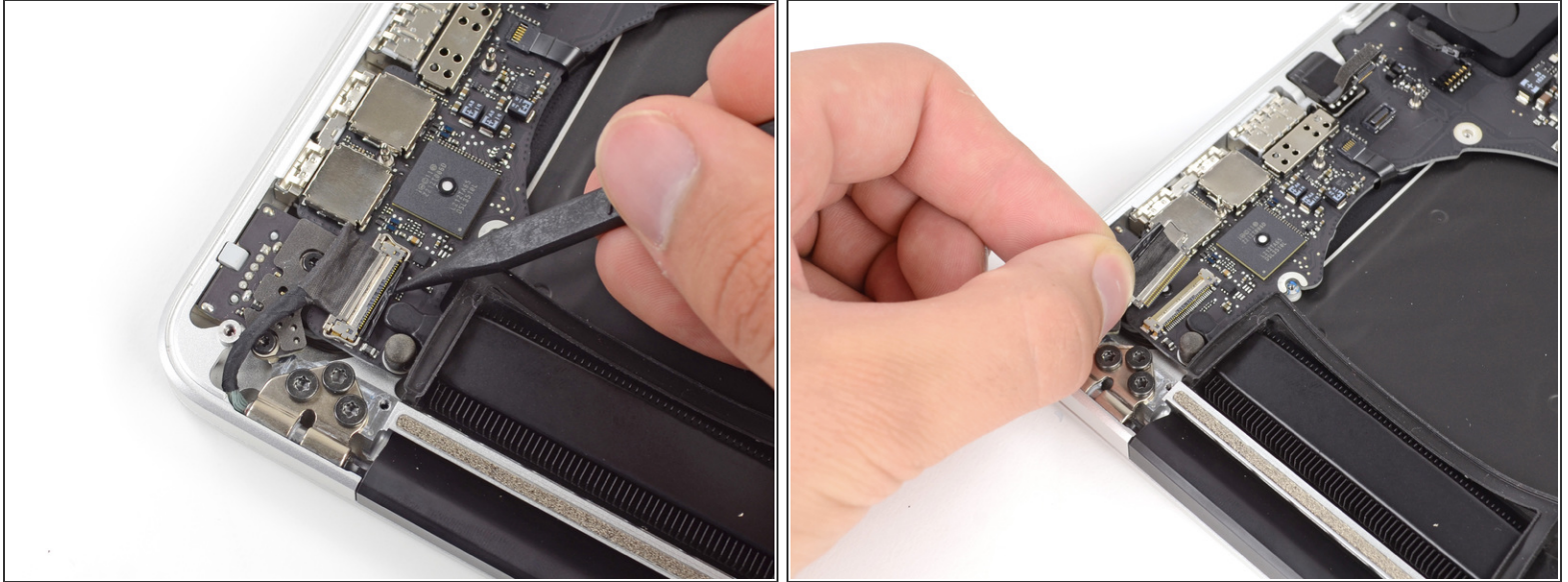
- Use the flat end of a spudger to pry the keyboard backlight connector up from its socket on the logic board.


Step 27



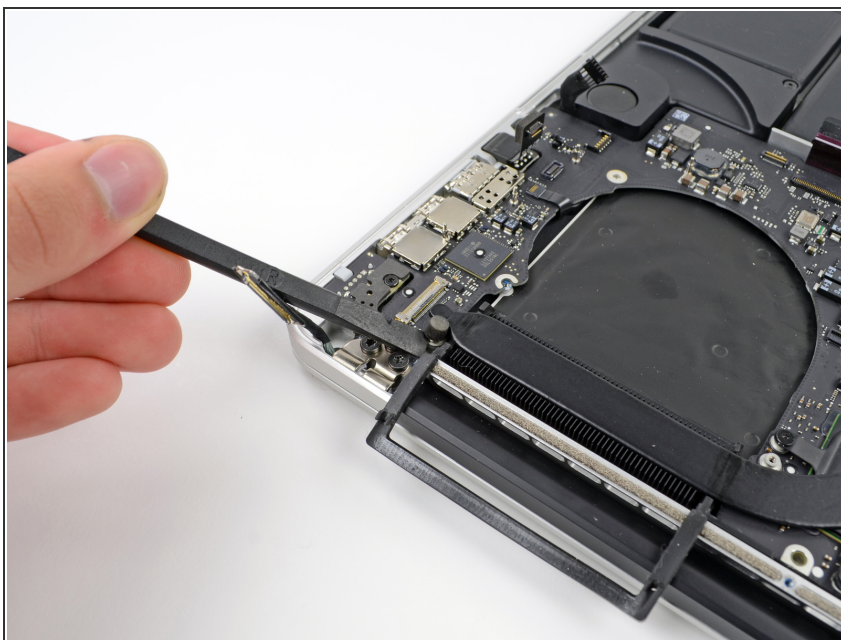
- Use the tip of a spudger or your fingernail to flip up the retaining flap on the microphone ribbon cable ZIF socket.
- ⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Pull the microphone ribbon cable out of its socket.

Step 28



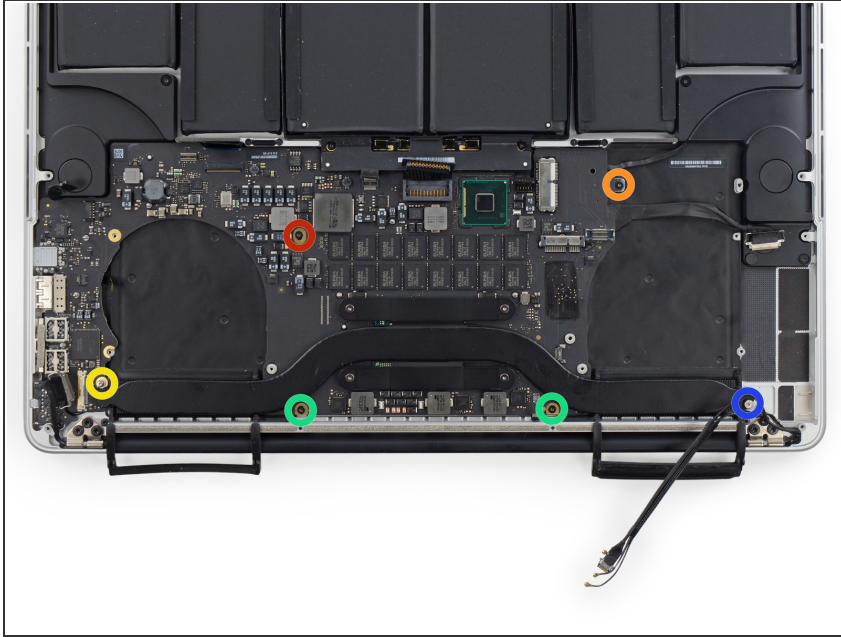
- Use the tip of a spudger to flip up the display data cable lock and rotate it toward the DC-In side of the computer.
 - Pull the display data cable straight out of its socket on the logic board.
-  Do not lift up on the display data cable, as its socket is very fragile. Pull the cable parallel to the face of the logic board.

Step 29



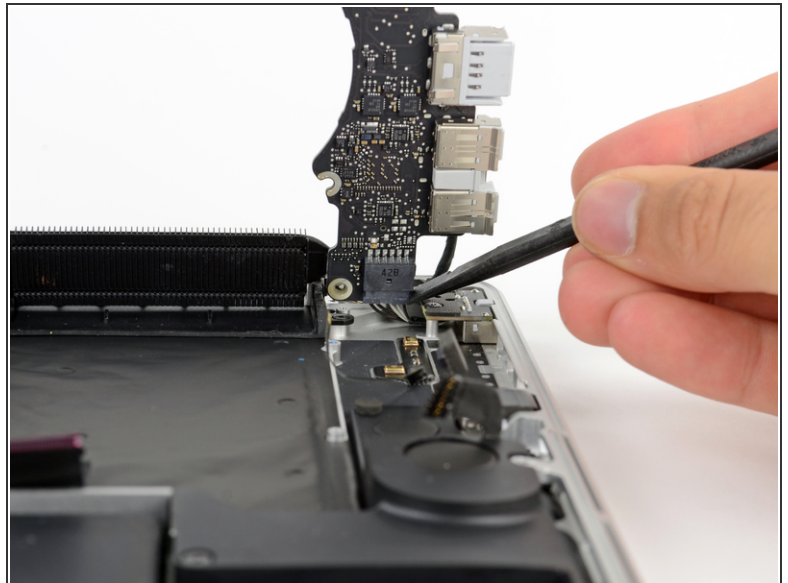
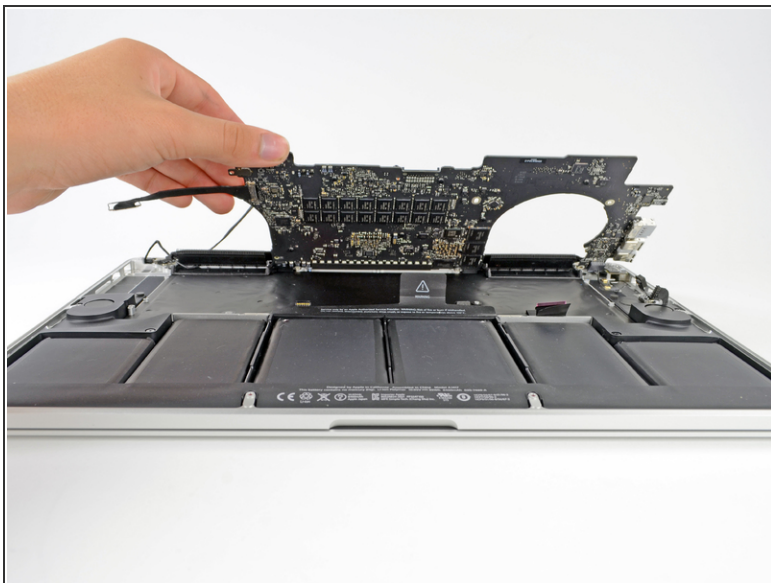
- Use the flat end of a spudger to carefully pry off the rubber screw cap on the raised screw head near the MagSafe 2 connector.

Step 30



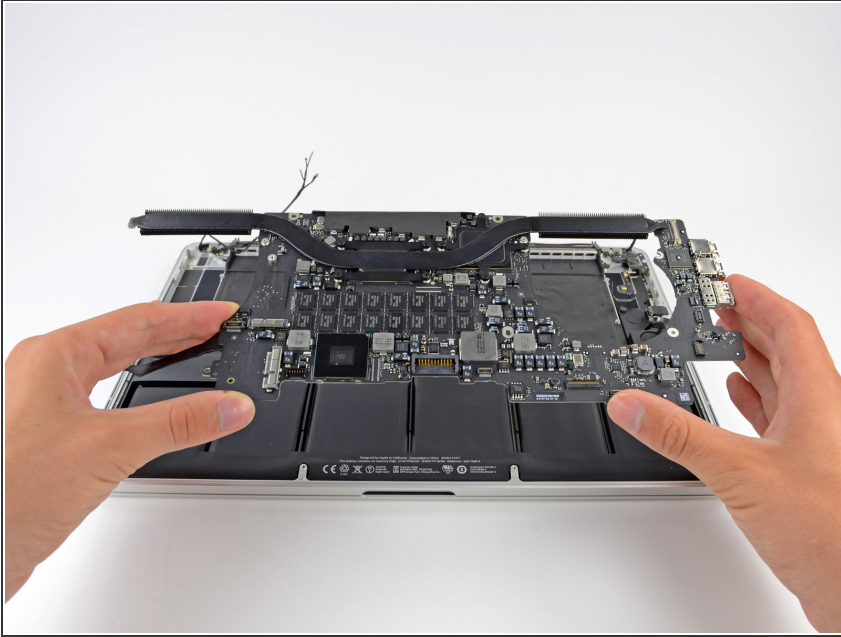
- Remove the following six screws securing the logic board to the upper case:
 - One 3.1 mm T5 Torx screw
 - One 2.5 mm T5 Torx screw
 - One 5.5 mm silver, raised-head T5 Torx screw
 - Two 5.7 mm T5 Torx screws
 - One 3.8 mm silver T5 Torx screw

Step 31



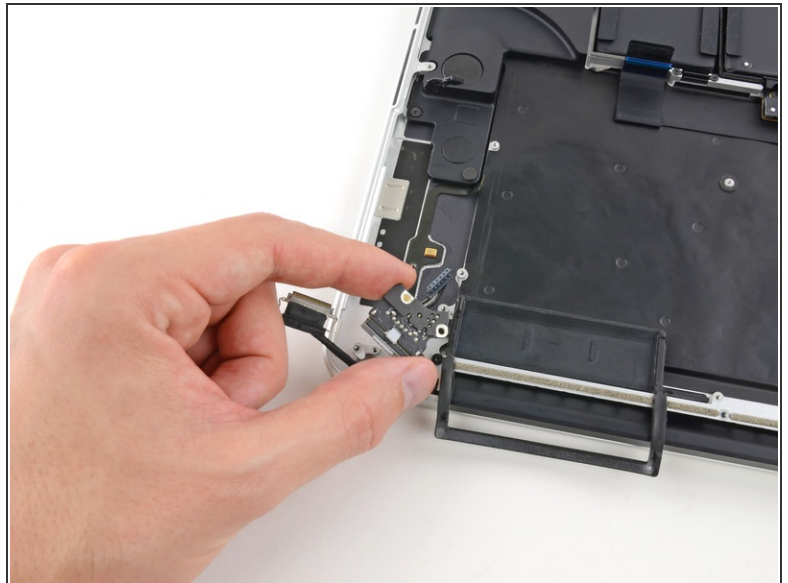
- Lifting from the side nearest the battery, rotate the logic board toward the top of the MacBook Pro.
 - ⓘ You may need to slide the logic board a few millimeters to the left in order to get clearance for the ports along the right edge of the board.
- Using the flat end of a spudger, carefully push the MagSafe 2 connector out of its socket on the bottom of the logic board.

Step 32



- Remove the logic board assembly from the MacBook Pro.

Step 33 — MagSafe DC-In Board



- ① Rotate the device 180 degrees to more easily access the rest of the internal components.
- Remove the two 2.5 mm T5 Torx screws securing the MagSafe DC-In board to the upper case.
- Slide the MagSafe DC-In board towards the right to free it from its recess within the upper case.
- Lift and remove the MagSafe DC-In board out of the upper case assembly.

To reassemble your device, follow these instructions in reverse order.

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